INTERNATIONAL SEARCH REPORT

ternational application No. PCT/KR2003/002775

CLASSIFICATION OF SUBJECT MATTER A.

IPC7 C03B 33/09

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC B23K, C03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Applications for Invention since 1975

Korean Utility Models and Applications for Utility Models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) NPS, PAJ

DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-113384 A(KOIKESANSOKOGYO CO LTD) 24.Apr.2001 see the whole document	1,6-8
A .	JP 10-323779 A(HITACHICABLE LTD) 08.Dec.1998 see the whole document	1, 7, 8
A	JP 60-251138 A(HOYA CORP) 11.Dec.1985 see the whole document	1
A	RU 2024441 C1(Kondratenko) 15.Dec.1994 see the whole document	1, 6-8
A .	KR 2001-63794 A(SAMSUNG ELECTRIC CO LTD) 09.Jul.2001 see the whole document	1, 6 - 8
A	KR 2000-51013 A((SAMSUNG SDI CO LTD)16.Aug.2000 see the whole document	1,, 6 - 10
A	KR 2000-38519 A(SAMSUNG ELECTRIC CO LTD) 05.Jul.2000 see the whole document	1, 6 - 9

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	Further documents are listed in the continuation of Box C.	X See patent family annex.		
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
to be of particular relevance "E" earlier application or patent but published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive		
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Date of the actual completion of the international search		Date of mailing of the international search report		
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Name and mailing address of the ISA/KR		Authorized officer		
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